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Transportation Cost and Crush Processing Cost of Construction Waste Wood

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Abstract: The transportation cost of construction waste wood from a demolition spot to the intermediate treatment mill, the crush processing cost at the intermediate treatment mill, and the transportation cost of crushed chips to the recycling mill were estimated and ways to reduce those costs were discussed. The transportation cost of construction waste wood and of crushed chips was greatly reduced by increasing the number of round trips per day. The transportation cost of construction waste wood was about two times that of crushed chips. The transportation cost of crushed chips was greatly reduced by increasing the backhaul use rate when the section between an intermediate treatment mill and the recycling mill was a distant place allowing only about 1 round trip per day. The total transportation cost of construction waste wood and crushed chips was mainly influenced by the location of the intermediate treatment mill. The total transportation cost was estimated by each number of round trips of construction waste wood and crushed chips, and by the backhaul use rate of crushed chips. The crush processing cost was reduced greatly when the annual processing scale of the intermediate treatment mill was increased from 20000 t to 50000 t or 100000 t.

Keywords: transportation cost, crush processing cost, backhaul, backload, return load

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